ER²SCHOOL

EUROPEAN REHABILITATION ROBOTICS SCHOOL

4th Edition
18-23 SEPTEMBER 2023
How to implement and deal Evidence

DAY 1

MORNING - Opening and PRESENTATION OF THE 4th Edition of the ER2 School

08.30   Registrations

09.00   Opening
ESPRM/UEMS Section and Board - Perspectives, quality for educational programmes
Speakers: Nicolas Cristodolou, Mauro Zampolini, Nikolaos Barotsis, Klemen Grabljevec, Alessandro Giustini

School Partnerships
IISART Representative: TBD
KOS Group Representative: Antonio De Tanti

SIMFER/SIRN clinical and educational italian experience
Presidents: Giovanna Beretta, Mauro Zampolini

Local authority
Marche Region Representative: ***TBD***

National Health Italian Institute – Role and cooperation in PRM
*Speaker: Mauro Grigioni (also general presentation regarding "**CICERONE Consensus Conference**")*

Mediterranean Forum of PRM
*"New technologies to develop Physical and Rehabilitation Medicine in the Mediterranean region**"***
Speaker: Milica Lazovic

13.00   Questions and closing remarks
Speeches lasts about 20 minutes: after each of them, there are about 10 minutes of confrontation

14.00   AFTERNOON

"What can be a Working Group - Exceeded limits and new challenges"
Speaker: Alessandro Giustini

WORKING GROUPS (LOKOMAT – WALKER VIEW)

"Lokomat Device"
Speaker: TBD – Video Call

"Walker View Device"
Speaker: Loretta Bacci

Practical training on the devices and their clinical protocols
Discussion/assessment of critical issues and results obtained (also involving companies involved)

17.00   Closing remarks

DAY 2

MORNING - <u>THEORETICAL ASPECTS</u>

08.30   **Registrations**

09.00   *"New technologies and development of PRM in national health services in Europe"*
Speaker: Paolo Boldrini

"How to connect technological perspectives and clinical needs"
Speaker: Klemen Grabljevec

"Training needs and contents"
Speaker: Calogero Foti

The "*Cochrane Library*"
Presentation of the evidence available in the field of neurological pathologies
Speaker: Stefano Negrini

"HTA: model and rules in the Italian experience"
Speaker: Donatella Bonaiuti

"European Robotic Rehabilitation Community: a project toward evidence"
Speakers: Francesco Spigarelli, Antonio Ruggiero

13.00   **Questions and closing remarks**
Speeches lasts about 20 minutes: after each of them, there are about 10 minutes of confrontation

14.00   **AFTERNOON**

WORKING GROUPS (EKSO - GEO - ANDAGO)

"Ekso Device"
Speaker: Antonello Morgantini

"Geo Device"
Speaker: Michela Goffredo

"Andago Device"
Speaker: TBD

Practical training on the devices in question
Discussion/assessment of critical issues and results obtained (also involving companies involved)

17.00   **Closing remarks**

DAY 3

MORNING - <u>TECHNOLOGICAL ASPECTS</u>

8.30　　**Registrations**

9.00　　*"Theoretical premises for collecting evidences of effectiveness in robotic rehabilitation"*
　　　　　Speaker: Maria Gabriella Ceravolo

　　　　　"*Rehabilitation Research and Cicerone Conference "*
　　　　　Speaker: Federico Posteraro

　　　　　"Applied Research to Technology"
　　　　　Speaker: Stefano Mazzoleni

　　　　　"Advanced not robotic Rehabilitation Devices– Virtual reality and communication"
　　　　　Speakers: Marco Franceschini

　　　　　"The role of visual stimulation"
　　　　　Speaker: Giovanni Morone

　　　　　"The role of cognitive stimulation "
　　　　　Speaker: Antonio De Tanti

13.00　**Questions and Closing remarks**
　　　　　Speeches lasts about 20 minutes: after each of them, there are about 10 minutes of confrontation

14.00　**AFTERNOON**

　　　　　"*The role of virtual reality in rehabilitation"*
　　　　　Speaker: Marianna Capecci

　　　　　WORKING GROUPS (VRRS - HUNOVA)

　　　　　"Vrrs Device"
　　　　　Speaker: Sanaz Pournajaf

　　　　　"Hunova Device"
　　　　　Speaker: Rocco Salvatore Calabrò

　　　　　Practical training on the devices in question
　　　　　Discussion/assessment of critical issues and results obtained (also involving companies involved)

17.00　**Closing remarks**

DAY 4

MORNING - <u>ORGANIZATION AND MANAGEMENT</u>

8.30   Registrations

9.00   State of diffusion of robotics for rehabilitation in European national health systems
The even partial results of the Survey "Technological equipment in European healthcare systems"
Speaker: Aydan Oral

Recognition and accreditation in European Health Systems / Provision of rehabilitation services including technological devices
Speaker: Carlotte Kiekens

Structures and experience in different context for robotic treatments
Speaker: Daiana Popa - Romania
Speaker: Iuly Treger – Israel

"Artificial Intelligence"
Speaker: Mauro Zampolini

"Clinical experience in robotic treatment in upper limb recovery"
Speaker: Maurizio Massucci

13.00   Questions and closing remarks
Speeches lasts about 20 minutes: after each of them, there are about 10 minutes of confrontation

14.00   AFTERNOON

"*Dexterity recovery"*
Speaker: Elisa Andrenelli

WORKING GROUPS (GLOREHA – LIMIX)

"Gloreha Device"
Speaker: Kristyna Hoidekrová

"LIMIX Device"
Speaker: Cinzia Bonanni

Practical training on the devices in question
Discussion/assessment of critical issues and results obtained (also involving companies involved)

17.00   Closing remarks

DAY 5

MORNING - <u>RIGHTS AND ETHICS</u>

8.30　　Registrations

9.00　　Patients' rights and ethical, deontological issues
Speaker: Alessandro Giustini
Speaker: Giampiero Griffo
Speaker: Padre Carlo Casalone

Education, training, organizational and safety for professionals and patients

"Management of complexity in treatment"
Speaker: Antonello Morgantini

"New technologies applied to outpatients"
Speaker: Antonio Bortone

"Robotics in treatment and management complexity"
Speaker: Paolo Guidoni

"The globality and complexity of taking care: training skills for the young PRM Specialist"
Speaker: Asmaa Mahmoud

13.00　Questions and closing remarks
Speeches lasts about 20 minutes: after each of them, there are about 10 minutes of confrontation

14.00　AFTERNOON

"*Upper Limb – Kos Experience"*
Speaker: Daniela Tulli

WORKING GROUPS (AMADEO – DIEGO – PABLO – MOTORE)

"Amadeo Device"
Speaker: Rocco Salvatore Calabrò

"Diego Devices"
Speaker: Brigitta Mirk

"Pablo Devices"
Speaker: Ilanit Baum

"MOTORE Device"
Speaker: TBD

Practical training on the devices in question
Discussion/assessment of critical issues and results obtained (also involving companies involved)

17.00　Closing remarks

DAY 6

MORNING - <u>CONCLUSION OF THE 4th Edition of the ER2 School</u>

08.30   Registrations

09.00   Debate
Developments for Working Groups and for New School Editions

11.30   Closing remarks

<u>Scientific Committee</u>
Nikos Barotsis; Giovanni Beretta; Paolo Boldrini; Maria Gabriella Ceravolo; Nikolaos Cristodolou; Antonio De Tanti; Calogero Foti; Marco Franceschini; Alessandro Giustini; Klemen Grabljevec; Milica Lazovic; Daiana Popa; July Treger; Mauro Zampolini

<u>Faculty</u>
Elisa Andrenelli; Loretta Bacci; Nikos Barotsis; Giovanni Beretta; Paolo Boldrini; Donatella Bonaiuti; Cinzia Bonanni; Antonio Bortone; Rocco Salvatore Calabrò; Marianna Capecci; Padre Carlo Casalone; Maria Gabriella Ceravolo; Nikolaos Cristodolou; Antonio De Tanti; Calogero Foti; Marco Franceschini; Alessandro Giustini; Michela Goffredo; Klemen Grabljevec; Giampiero Griffo; Mauro Grigioni; Paolo Guidoni; Kristýna Hoidekrová; Carlotte Kiekens; Milica Lazovic; Asmaaa Mahmoud; Maurizio Massucci; Stefano Mazzoleni; Antonello Morgantini; Giovanni Morone; Stefano Negrini; Aydan Oral; Daiana Popa; Federico Posteraro; Sanaz Pournajaf; Antonio Ruggiero; Francesco Spigarelli; July Treger; Daniela Tulli; Mauro Zampolini

Speakers in requested to be in presence but could be online if necessary.
Tutors for afternoon practical training, dividing participants in little groups: *Doctors, FT, OT, Bioengineers.*

Organization:

Prof. Alessandro Giustini
ESPRM Robotic SISC – RRSS - Community Chair

Dr. Daiana Popa
ESPRM Robotic SISC – RRSS

Dr. Antonello Morgantini
Porto Potenza Picena Rehabilitation Center General Director

Cristina Gamberini
Santo Stefano - KOS Group / ERRS - Community Secretary

Antonio Ruggiero
Bioengineer / Santo Stefano - KOS Group / ERRS - Community Facilitator

Francesco Spigarelli
Data Scientist / Santo Stefano - KOS Group / ERRS - Community Facilitator